

[***NUCLEIC ACID SEQUENCING METHOD***]

Abstract of Disclosure

The present invention relates to a nucleic acid sequencing method by using a rotating electric field to control translocation of a polynucleotide sequence through a nanopore. The translocation time of each nucleotide passing through the nanopore is found to be a multiple of $1/4$ the period of the rotating electric field. By comparing change of the blockage current for the polynucleotide sequence through the nanopore over time and measuring the translocation time, the linking order of the nucleotides in the polynucleotide sequence and the repeating nucleotide numbers can be determined. Therefore, a rapid nucleic acid sequencing method is provided when the rotating electric field is adjusted to an adequate frequency.

Figures